WHAT IS CLAIMED IS:

1. A process for the preparation of a compound of formula (I)

$$R^{1}$$
-(C=S)-NH₂

(I), wherein

 R^1 is selected from the group consisting of heteroaryl, phenyl, or phenyl substituted with one, two, three, or four substituents independently selected from the group consisting of C_1 - C_6 -alkyl, C_2 - C_6 -alkynyl, C_2 - C_6 -alkynyl, C_1 - C_1 - C_1 - C_2 - C_3 -alkynyl, C_3 - C_4 -alkynyl, C_3 - C_4 -alkynyl, C_3 - C_4 -alkynyl, C_3 - C_6 -

the process comprising reacting a compound having formula (II)

$$R^1$$
-C $\equiv N$

(II), with a base and H₂S.

2. The process of Claim 1, wherein the base is a compound of formula (III)

$$(M)^{+}(YH)^{-}$$

(III), wherein

M is sodium, potassium, lithium, or -NH₄; and

Y is oxygen or sulfur.

- 3. The process of Claim 1, wherein the process is conducted under a pressure of at least 10 psi.
- 4. The process of Claim 1, wherein the process is conducted at a temperature of about 0°C to about 150°C.
- 5. The process of Claim 1, wherein the process is conducted in a solvent.
- 6. The process of Claim 5, wherein the solvent is water.
- 7. The process of Claim 1, wherein R¹ is phenyl substituted with one-OH substituent.
- 8. The process of Claim 1, wherein M is sodium and Y is sulfur.

- 9. The process of Claim 1, wherein M is sodium and Y is oxygen.
- 10. A process for the preparation of 4-hydroxybenzene carbothioamide, the process comprising reacting 4-hydroxybenzonitrile and sodium hydrogen sulfide under a pressure of at least 10 psi at a temperature of about 0°C to about 150°C in a solvert.
- 11. The process of Claim 10, wherein the pressure is 60 psi, the temperature is 70°C, and the solvent is water.
- 12. A process for the preparation of a compound of formula (IV)

(IV), wherein

 R^1 is selected from the group consisting of heteroaryl, phenyl, or phenyl substituted with one, two, three, or four substituents independently selected from the group consisting of C_1 - C_6 -alkyl, C_2 - C_6 -alkynyl, -OH, -F, -Cl, -Br, -I, -NH₂ and -NO₂;

R² is selected from the group consisting of hydrogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, and C₂-C₆-alkynyl; and

 R^3 is selected from the group consisting of hydrogen, C_1 - C_6 -alkyl, C_2 - C_6 -alkenyl, and C_2 - C_6 -alkynyl;

the process comprising reacting a compound having formula (I)

$$R^{1}$$
-(C=S)-NH₂ (I),

with a compound having formula (V)

$$R^3$$
 O R^2

(V), wherein

X is selected from the group consisting of -Cl, -Br, -I, and -F.

- 13. The process of Claim 12, wherein the process is conducted at a temperature of about 0°C to about 150°C.
- 14. The process of Claim 12, wherein the process is conducted in a solvent.
- 15. The process of Claim 14, wherein the solvent is ethanol.
- 16. The process of Claim 12, wherein R¹ is phenyl substituted with one -OH substituent.
- 17. The process of Claim 12, wherein R² is ethyl.
- 18. The process of Claim 12, wherein R³ is methyl.
- 19. The process of Claim 12, wherein X is -Cl.
- 20. The process for the preparation of ethyl 2-(4 hydroxyphenyl)-4-methyl-1, 3-thiazole-S-carboxylate, the process comprising reacting 4-hydroxybenzene carbothiomide with ethyl-2-chloroacetoacetate at a temperature of about 0°C to about 150°C in an organic solvent.
- 21. The process of Claim 20, wherein the temperature is 80°C and the organic solvent is ethanol.
- 22. A process for the preparation of a compound of formula (IV)

$$R^{1}$$
 R^{3}
 R^{3}
 R^{3}
 R^{2}

(IV), wherein

R¹ is selected from the group consisting of heteroaryl, phenyl, or phenyl substituted with one, two, three, or four substituents independently selected from the group consisting of hydrogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, -OH, -F, -Cl, -Br, -I, -NH₂ and -NO₂;

 R^2 is selected from the group consisting of hydrogen, C_1 - C_6 -alkyl, C_2 - C_6 -alkenyl, and C_2 - C_6 -alkynyl; and

 R^3 is selected from the group consisting of hydrogen, C_1 - C_6 -alkyl, C_2 - C_6 -alkenyl, and C_2 - C_6 -alkynyl;

the process comprising the steps of:

(a) reacting a compound having formula (II)

$$R^1$$
-C $\equiv N$

(II),

with a base and H₂S to provide a compound of formula (I)

$$R^1$$
-(C=S)-NH₂

(I);

and

(b) reacting the product of step (a) with a compound having formula (V)

$$R^3$$
 O R^2

(V), wherein

X is selected from the group comprising -Cl, -Br, -I, and -F.

23. The process of Claim 22, wherein the base in step (a) is a compound of formula (III) $(M)^+(YH)^-$

(III), wherein

M is sodium, potassium, lithium, or -NH₄; and

Y is oxygen or sulfur.

- 24. The process of Claim 22, wherein step (a) is conducted under a pressure of at least 10 psi.
- 25. The process of Claim 22, wherein steps (a) and (b) are conducted in solvents.
- 26. The process of Claim 22, wherein steps (a) and (b) are conducted at a temperature of about 0°C to about 150°C.
- 27. The process of Claim 22, which is conducted as a continuous process.

28. A process for the preparation of ethyl 2-(4 hydroxyphenyl)-4-methyl-1, 3-thiazole-S-carboxylate,

the process comprising the steps of:

- (a) reacting 4-hydroxybenzonitrile, sodium hydroxide, and hydrogen sulfide under a pressure of at least 10 psi at a temperature of about 0°C to about 150°C in a solvent; and
- (b) reacting the product of step (a) and ethyl-2-chloroacetoacetate at a temperature of about 0°C to about 150°C in a solvent.
- 29. The process of Claim 29, wherein in (a) the pressure is 60 psi, the temperature is 70°C, and the solvent is water, and in (b) the temperature is 80°C and the solvent is ethanol.
- 30. The process of Claim 29, wherein the solvent used in (a) is the same solvent used in (b).
- 31. The process of Claim 29, wherein in (a) the pressure is 60 psi, the temperature is 70°C, and the solvent is ethanol, and in (b) the temperature is 80°C and the solvent is ethanol.